

LUKOMSKAYA, Anna Moiseyevna; LUPPOV, S.P., retsenzent; FAYDEL', E.P.,
retsenzent; SHAPRANOVSKIY, K.I., retsenzent; SMIRNOV, V.I.,
akademik, red.; KAL', M.M., red.izd-va; BOCHEVER, V.T.,
tekhn.red.

[Bibliography of Russian literature on mathematics and physics;
a survey of bibliographical sources] Bibliografiia otechestvennoi
literatury po matematike i fizike; obzor bibliograficheskikh
istochnikov. Pod red. V.I.Smirnova. Moskva, Izd-vo Akad.nauk
SSSR, 1961. 155 p. (MIRA 14:2)

(Bibliography--Mathematics)

(Bibliography--Physics)

S/069/63/025/002/005/010
A057/A126

AUTHOR: Lukomskaya, A.M.

TITLE: On the time dependence of the static strength of rubbers

PERIODICAL: Kolloidnyy zhurnal, v. 25, no. 2, 1963, 134 - 189

TEXT: The experimental part of the present work was carried out by L.T. Kalinova. The author investigated the effect of composition and test conditions on the time dependence of the strength of rubber under static load. Three types of rubber, CKC-30 (SKS-30), CKB (SKB), and NR were investigated at constant specific rupture load $\sigma = \text{const}$ and constant deformation rate $v = \text{const}$. The stress (σ) - service life (τ) relation might be expressed by the equation $\tau = A \cdot e^{-\alpha \sigma}$ for SKB and SKS-30 rubbers, if they are not crystallizing or aging under stress at room temperature, where A and α are constants for the given temperature. For NR rubbers at room temperatures the expression

$$\tau = A_1 \cdot e^{-\alpha_1 \sqrt{\sigma}}$$

Card 1/2

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On the time dependence of the static strength

holds. After prolonged testing times at temperatures above 100 - 120°C, the law is expressed by

$$\tau = A_2 \cdot e^{-\alpha_2 \sigma^2}$$

The relation between the parameters of condition is given by the integral

$$\int_0^{t_{rupt}} \frac{dt}{\tau(\sigma)} = 1,$$

(t_{rupt} = testing time of the rubber until rupture at $v = \text{const}$). The integral has a definite solution, if the expression for $\tau(\sigma)$ at $\sigma = \text{const}$ and the dependence of σ upon the deformation (or the testing time) at $v = \text{const}$ are known. There are 3 figures and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: May 29, 1960

Card 2/2

AVTSYN, A.P.; VIKHERT, T.M.; VIKHERT, A.M.; LUKOMSKIY, G.I. (Moskva)

Some complications and the mechanism of their pathogenesis in
controlled hypotension. Vop. neurokhir. 26 no.6:19-22 N-D'62
(MIRA 17:3)

1. . Institut neyrokhirurgii imeni akademika N.N.Burdenko AMN
SSSR, laboratoriya patologicheskoy anatomii (rukovoditel' I.V.
Davydovskiy) i fakul'tetskaya khirurgicheskaya klinika I
Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

SOLOV'YEVA, I.P., kand. med. nauk (Moskva, Zubovskaya, d. 5/36 , kv.6);
LUKOMSKIY, G.I., kand. med. nauk

Macrofollicular lymphoblastoma of the lung (Brill-Symmers
disease). Vestn. khir. Grekov. 90 no.4:89-90 Ap⁶³
(MIRA 17:2)

1. Iz Moskovskoy gorodskoy klinicheskoy bol'nitsy No.61 (glavnyy
vrach - L.N.Vasilevskaya) i kliniki khirurgicheskikh bolezney
(zav. - prof. I.S.Zhorov) sanitarno-gigiyenicheskogo fakul'teta
1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M.Sechenova.

KLIMANSKIY, Vitaliy Afanas'yevich; LUKOMSKIY, G.I., red.

[Bronchography in children] Bronkhografiia u detei. Moskva, Meditsina, 1964. 130 p. (MIRA 17:7)

MANEVICH, Aleksey Zinov'yevich; MIKHAIL'SON, Viktor Arkad'yevich;
Prinimali uchastiye: KRIVENKO, N.G., sestra-anesteziist;
MEDVEDKOVA, N.Ye., sestra-anesteziist; LUKOMSKIY, G.I.,
red.

[Fundamentals of anesthesia; manual for nurse-anesthetist.]
Sobremennyye narkozy; posobie dlia sester-anesteziistov. Pri uche-
nii sester-anesteziistov N.G.Krivenko i N.E.Medvedkovoi.
Moskva, Meditsina, 1964. 162 p. (MIRA 17:8)

USSR-Biology - Biochemistry

FD-2263

Card 1/1 Pub 17-14/20

Author : Lukomskaya, I. S.

Title : Mode of formation of fructose diphosphate under aerobic conditions
in a ground preparation of the leg muscles of chicks

Periodical : Byul. eksp. biol. i med. 3, 55-58, Mar 1955

Abstract : Investigated chemical reactions involved in the formation of fructose
diphosphate during aerobic incubation of a ground preparation of the
leg muscles of chicks. Tables, graph. Ten references; 6 USSR, all
after 1940

Institution: Chair of Biochemistry of Animals of the Moscow State University imeni
Lomonosov

Submitted : August 24, 1954 by S. Ye. Severin, Member of the Academy of Sciences
USSR

LURONSKAYA, I.S.

2

The hydrolysis of 1:6 bonds of dextran by animal tissues. B. L. Rozenfeld and I. S. Luronskaya (Lab. Physiol. Chem., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk SSSR* 21, 412-15 (1956).—The object of this study was to det. what animal organs other than the spleen possess enzymes which can hydrolyze dextran. Tissues of the liver, kidneys, lungs, brain, and muscles were treated by the $(NH_4)_2SO_4$ method of protein fractionation employed previously (C.A. 50, 10148d), and the enzymic activity of the protein fractions studied. The most pronounced dextran hydrolyzing activity was manifested by spleen and liver preps., and to what least activity by preps. of kidneys and lungs, and the least by preps. of muscles. No such enzymic activity was detected in the blood. Enzymic preps. obtained from different organs differed from one another in many of their properties; the enzymic activity of spleen, liver, and kidney preps. kept in the cold at pH 4.8 remained stable for a long time. Under similar conditions brain preps. completely lost their enzymic activity in 1-2 days. Spleen preps. almost completely fail to split dextran at pH 7.0; under similar conditions liver preps. retain a notable degree of their enzymic activity. Liver and spleen preps. kept in the cold at pH 7.0 for 1-2 weeks lose their dextran hydrolyzing activity irreversibly. For the detn. of the mechanism of action of the tissue dextran hydrolyzing enzymes a study was made of the end-products of the process by the method of paper chromatography. Glucose was found to be the only product of the dextran hydrolysis. No evidence of the formation of isomaltose or of traces of oligosaccharides was disclosed. This was confirmed by the results of acid hydrolysis of the products of dextran tissue enzymic hydrolysis. B. S. Levine

LUKOMOKAYA, I. S.

McL Cleavage of isomaltose in animal tissues. I. S. Lukomokaya. Doklady Akad. Nauk S.S.S.R. 199, 369 (1960).
Action of enzyme preps. from various tissues of a rabbit on isomaltose (prepd. according to Bacon and Eason, C.A. 49, 4315g) was followed by paper chromatography. The enzymes for muscle and liver cleaved isomaltose yielding glucose; dextran was also attacked. Kidney and spleen enzymes also cleaved isomaltose. The enzyme active in the cleavage appears to be similar to the oligo-1,6-glycosidase described by Lerner and McNikie (C.A. 46, 11, 1951).

Lab. Physiol. Chem., AS USSR

LUKOMSKAYA, E. S.

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✓ Possibility of existence in the liver of a polysaccharide dif-
ferent from glycogen. E. L. Rozenfel'd and I. S. Lukom-
skaya. *Doklady Akad. Nauk S.S.S.R.* 111, 1088-90 (1956).
Holding an animal liver homogenate with H_2O , 5 hr., centri-
fuging, and allowing the liquid to stand 1-2 days with saliva-
soln. gave, after sepn. of proteins with CCl_3CO_2H and dialy-
sis of residual soln. for the removal of cleavage products of
glycogen, a water-soluble N-free material upon addn. of Et-
OH. A similar material was prepd. by hydrolysis of liver
tissue with 40% KOH, then treated as above. The products
thus obtained gave intense color with anthrone reagent but
failed to give the iodine test. Hydrolysis with 5% HCl or
 H_2SO_4 cleaved the polysaccharide to glucose in 98-100%
yield. In incomplete hydrolysis maltose was shown to
predominate over maltose. Thus the material contains more
1,6-glucoside bonds than does glycogen. Dextran-glucosi-
dase cleaved both types of preps. (aq. or alk.) but they were
very slightly attacked by salivary α -amylase. Thus, rabbit
liver contains in addn. to glycogen a total of 1.5% of a new
polysaccharide with high content of 1,6-bonds. G. M. K.

LUKOMSKAYA, I. S. Cand Biol Sci -- (diss) "Segmentation of dextran and isomaltose by enzyme preparations made from various animal tissues."
Mos, 1958. 19 pp (Inst of Biochemistry im A. M. Bakh, Acad Sci USSR),
100 copies (KL, 11-58, 115)

LUKOMSKAYA, I.S., ROZENFEL'D, Ye.L.

α -1,6-dextran glycosidase of the liver [with summary in English]
Biokhimiia 23 no.2:261-265 Mr-Apr '58 (MIRA 11:6)

1. Laboratoriya fiziologicheskoy khimii AN SSSR, Moskva.

(LIVER, metabolism

α -1,6-dextranglycosidase, isolation & properties
(Rus))

(TRANSFERASES,

α -1,6-dextranglycosidase of liver, isolation & properties (Rus))

ROZENFEL'D, Ye.L.; LUKOMSKAYA, I.S.; HUDAKOVA, N.K.; SHUBINA, A.I.

Study of α -1,4 and α -1,6-polyglycosidases in animal tissues.
Biokhimiia 24 no.6:1047-1053 N-D '59. (MIRA 13:5)

1. Laboratory of Physiological Chemistry, Academy of Sciences
of the U.S.S.R., Moscow.
(CARBOHYDRASES metab.)

LUKOMSKAYA, I.S.

Synthesis of oligosaccharides with α -1,6, α -1,4 and α -1,3 linkages from maltose by enzymatic preparations from the liver and muscles. Biokhimiia 25 no.5:831-837 S-0 '60. (MIRA 14:1)

1. Institute of Biological and Medical Chemistry, Academy of Medical Sciences of the U.S.S.R., Moscow.
(OLIGOSACCHARIDES) (MALTOSE)
(ENZYMES)

LUKOMSKAYA, I.S.; GORODETSKIY, V.K.

Use of microcide (glucose oxidase) for the specific quantitative determination of glucose in the blood. Vop. med. khim. 6 no. 6:641-642. N-D '60. (MIRA 14:4)

1. Laboratory of Clinical Chemistry Institute of Biological Medical Chemistry Academy of Medical Sciences of the U.S.S.R., Moscow.
(DEHYDROGENASE) (BLOOD SUGAR)

LUKONSKAYA, I. S. (USSR)

"The Synthesis of Oligosaccharides with Various Types of Linkage
in the Animal Body."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

LUKOMSKAYA, I.S.

Second conference on the problem of "Chemistry and carbohydrate
metabolism." Vop. med. khim. 7 no.5:550-552 S-0 '61. (MIRA 14:10)
(CARBOHYDRATE METABOLISM--CONGRESSES)

LUKOMSKAYA, I.S.; GORODETSKIY, V.K.

Use of microcide (glucose oxidase) to determine glucose in normal and diabetic blood. Biokhimiia 26 no.3:477-482 My-Je '61. (MIRA 14:6)

1. Laboratory of Clinical Chemistry, Institute of Biological and Medical Chemistry; Academy of Medical Sciences of the U.S.S.R., Moscow.

(BLOOD SUGAR)

(DIABETES)

(MICROCIDE)

ROZENFEL'D, Ye.L.; LUKOMSKAYA, I.S.

Specificity of poly- and oligoglycosidases. Dokl.AN SSSR 138 no.3:
695-697 My '61. (MIRA 14:5)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
Predstavleno akademikom A.I.Oparinym.
(GLYCOSIDASES)

LUKOMSKAYA, I.S.

Synthesis of oligosaccharides with different types of bonds from glucose induced by an enzymatic liver preparation. Dokl. AN SSSR 142 no.5:1190-1192 F '62. (MIRA 15:2)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
Predstavleno akademikom A.I. Operinym.
(DISACCHARIDES)
(GLUCOSE)
(LIVER EXTRACT)

LUKOMSKAYA, I.S.; TARASOVA, G.I.

Trehalase in animal and human tissues. Vop. med. khim. 9
no.2:214-216 Mr-Apr '63. (MIRA 17:8)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,
Moskva.

LUKOMSKAYA, I.S.; TARASOVA, G.I.

Synthesis of kojibiose (α -1-~~2~~-diglucoside) under the action
of an enzymic preparation from the liver. Dokl. AN SSSR 148
no. 4:941-942 F '63. (MIRA 16:4)

1. Institut biologicheskoy i meditsinskoy khimi AMN SSSR.
Predstavleno akademikom A.I. Oparinym.
(Kojibiose)

LUKOMSKAYA, I.S.

"Acid" and "neutral" α -glycosidases in animal tissues. Dokl.
AN SSSR 157 no.3:716-719 J1 '64. (MIRA 17:7)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
Predstavleno akademikom A.I. Oparinym.

LUKOMSKAYA, I.S.

~~Trehalose metabolism in animals.~~ Usp. biol. khim. 6:142-155 '64.
(MIRA 18:3)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

SHCHERBUKHIN, V.D.; LUKOMSKAYA, I.S.

Infrared spectra of kojibiose, nigerose and isomaltose synthesized by enzymes from animal and human tissues. Dokl. AN SSSR 159 no.4:931-933 D '64 (MIRA 18:1)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR i Institut biokhimii imeni A.N. Bakha AN SSSR. Predstavleno akademikom A.I. Oparinym.

ROZENFEL'D, Ye.L.; LUKOMSKAYA, I.S.; GORODETSKIY, V.K.; ZARUBINA, N.A.;
ZARETSKIY, M.M.

Saccharose synthesis in man. Vop. med. khim. 10 no.5:554-556
S-O '64. (MIRA 18:11)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR i
Vsesoyuznyy institut eksperimental'noy endokrinologii, Moskva.

GORODETSKIY, V.K.; LUKOMSKAYA, I.S.

Preparation and use of test papers for a quick-method of
determining glucose in the urine. Vop.med.khim. 11 no.5:
91-94 S-0 '65.

(MIRA 19:1)

1. Laboratoriya klinicheskoy khimii i biokhimii uglevodnogo
obmena i Institut biologicheskoy i meditsinskoy khimii
AMN SSSR, Moskva. Submitted February 15, 1965.

LUKOMSKAYA, I.S.

Acid and neutral α -oligoglucosidases in rabbit liver. Biokhimiia
30 no.5:1080-1089 S-O '65. (MIRA 18:10)

1. Laboratoriya klinicheskoy khimii i biokhimi. uglevodnogo obmena
Instituta biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

LUKOMSKAYA, I.S.; TARASOVA, G.I.

Trehalose in vertebrates and man. Biokhimiia 30 no.1:95-99
Ja-F '65. (MIRA 18:6)

1. Laboratoriya klinicheskoy khimii i biokhimii uglevodnogo
obmena Instituta biologicheskoy i meditsinskoy khimii AN SSSR,
Moskva.

LUKOMSKAYA, K.A., studenka

Biological and anatomicomorphological characteristics of lotus
(Nelumbium nuciferum Garth). Uch. zap. Ped. inst. Gerts.
178:173-179 '59. (MIRA 14:7)

(Lotus)

SKAZKIN, F.D.; LUKOMSKAYA, K.A.

Effect of water deficiency in the soil on female gametophyte
formation in some grasses in connection with their growth.
Dokl. AN SSSR 146 no.6:1449-1451 0 '62. (MIRA 15:10)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut im.
A.I. Gertsena. Predstavleno akademikom A.L. Kursanovym.
(Plants—Reproduction) (Plants, Effect of aridity on)

~~SKAZKIN, F.D.; LUKOMSKAYA, K.A.~~

Characteristics of the flowering of gramineous plants in relation
to the effect of insufficient soil moisture. Fiziol. rast. 9
no.6:703-707 '62. (MIRA 15:12)

1. A.I. Gertzen Pedagogical Institute, Leningrad.
(Plants, Flowering of)
(Plants, Effect of soil moisture on)
(Oats)

LUKOMSKAYA, K.A.

Effect of water shortage in the soil on the development of female gametophyte in some spring cereals. Ich.zap.Ped.inst.Gerts. 249:209-232 '63. (MIRA 17:12)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut imeni A.I.Gertsena, Kafedra botaniki.

LUKORSKAYA, L. A.

K voprosu o nakhozhdenii kompleksnykh korney algebrayicheskikh uravneniy Minsk,
Uchen. Zap. Belorussk. Un-ta. Ser. Fiz-matem, 1(1939), 45-55.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948

PA 52196

USSR/Physics
Liquids - Flow
Fluid Dynamics

Nov/Dec 1947

"Solutions of Some Problems Concerning the Influx of Liquids in Cracks," M. A. Lukomskaia, Minsk, 8 pp

"Priklad Matemat i Mekhanik" Vol XI, No 6

Discusses the problem of a flat stationary flow of a pure and uncompressible liquid under several conditions. Discusses the research, generation of the functional equations, which are equivalent to the established conditions, relationship between the particulars of the functions, and two types of

52196

USSR/Physics (Contd)

Nov/Dec 1947

semi-planes in various types of porous soils.
Submitted 20 Mar 1946.

LUKOMSKAIA, M. A.

52196

Lukomskaya, M. A. A new proof of the theorem of van der Waerden on arithmetic progressions and some generalizations of this theorem. *Uspehi Matem. Nauk* (N.S.) 3, no. 6(28), 201-204 (1948). (Russian)

The theorem in question asserts that for any natural numbers k, l there is a number $n = n(k, l)$ such that if the numbers $1, 2, \dots, n$ are split up in any way into k classes, then one at least of these classes contains an arithmetical progression of length l . The author's generalization is: given natural numbers $l_1, \dots, l_{k-1}$, and given k , there is a number n such that one at least of the classes contains numbers $a_1, \dots, a_l$ such that $a_2 - a_1 : a_3 - a_2 : \dots : a_l - a_{l-1} = l_1 : l_2 : \dots : l_{l-1}$. In fact, however, this is a trivial generalization, since any sufficiently long arithmetical progression will contain l numbers which satisfy the required condition. We have only to pick them out from the arithmetical progression in the obvious way. The proof is also not new, being essentially the same as van der Waerden's original proof [*Nieuw Arch. Wiskunde* (2) 15, 212-216 (1927)]. *H. Davenport.*

Source: *Mathematical Reviews,*

Vol 10 No. 6

Lukomskaia, M. A.

Lukomskaia, M. A. On the flow of a fluid through a hole in an inhomogeneous layer. Akad. Nauk SSSR. Prikl. Mat. Mekh. 12, 207-208 (1948). (Russian)

The author solves a problem of steady flow of a perfect incompressible fluid subject to specified boundary conditions. Given two (or more) regions D_1 and D_2 occupied by the fluid, it is required to find the characteristic function of flow $W_1(Z) = \varphi_1 + i\psi_1$ in the region D_1 and the characteristic function of flow $W_2(Z) = \varphi_2 + i\psi_2$ in the region D_2 subject to conditions $\psi_1 = \psi_2$, $\varphi_1/C_1 = \varphi_2/C_2$, C_1 and C_2 constant. The general case, treated first, assumes for the boundary separating D_1 from D_2 any analytic curve L . From this is deduced a particular case in which L is an ellipse.

A. W. Boldyreff (Allanquercue, N. M.).

Source: Mathematical Reviews.

Vol 10, No. 9

LUKOMSKAYA, M. A.

Lukomskaia, M. A. On a generalization of a class of analytic functions. Doklady Akad. Nauk SSSR (N.S.) 73, 885-888 (1950). (Russian)

The author extends the main theorems of sigma-monogenic functions [Bers and Gelbart, Trans. Amer. Math. Soc. 55, 67-93 (1944); these Rev. 6, 86] to functions $f(z) = u(x, y) + iv(x, y)$, where u and v are connected by the equations (1) $c_j u_x + c_j v_y = a_j u_x + b_j v_y$, $j=1, 2$, and the coefficients a, b, c, e satisfy the relations (2a) $c_{j,2} = a_{j,2}, c_{j,1} = b_{j,1}$ and (2b) $e_1 a_1 = b_1 c_1$, $a_1(e_1 - c_1) = c_1(b_1 - a_1)$, $b_1(e_1 - c_1) = e_1(b_1 - a_1)$. For such functions one can define Σ -integration, Σ -differentiation, formal powers, and prove the analog of Taylor's theorem. The author mentions as an example the equations (3) $\cos \eta \cdot x_1 - \sin \eta \cdot y_1 = -y_1$, $\sin \eta \cdot x_1 + \cos \eta \cdot y_1 = -x_1$ which occur in the theory of plasticity. [In (3) the coefficients depend only on one independent variable. The reviewer suspects that in view of (2) equations (1) can always be transformed into such a system.] L. Bers.

cc: Mathematical Reviews,

Vol 12 No.8

Summit 2000

LUKOMSKAYA, M. A.

USSR/Mathematics - Partial Differential Equations Nov/Dec 51

"Cyclic Systems of Linear Homogeneous Differential Equations," M. A. Lukoms kaya (Minsk)

"Matemat. Sbor" Vol XXIX (71), No 3, pp 551-558

Cf. L. Bers and A. Gelbart, "On a Class of Functions Defined by Partial Differential Equations," Trans Amer Math Soc, 56, No 1, 1944, 67-93. Shows that for any n one can indicate a system (T) which is included in a cycle of order n . The case of infinite order is not excluded. Submitted 29 Jan 51.

198T36

Lukomskaya, M. A. On the set of solutions of a system
of linear differential equations. Uč. Zap. Belorussk. Gos. Univ. Ser. Fiz.-Mat. 1953, no. 15, 41-45.
(Russian)

2 - F/W

It is proved that the system of equations

$$(1) \quad \begin{aligned} c_1 \frac{\partial u}{\partial x} + d_1 \frac{\partial v}{\partial x} &= a_1 \frac{\partial u}{\partial y} + b_1 \frac{\partial v}{\partial y}, \\ c_2 \frac{\partial u}{\partial x} + d_2 \frac{\partial v}{\partial x} &= a_2 \frac{\partial u}{\partial y} + b_2 \frac{\partial v}{\partial y}, \end{aligned}$$

where a_i, b_i, c_i, d_i are sufficiently smooth functions such that

$$\frac{\partial c_i}{\partial x} = \frac{\partial a_i}{\partial y}, \quad \frac{\partial d_i}{\partial x} = \frac{\partial b_i}{\partial y} \quad (i=1, 2),$$

$$\begin{vmatrix} a_1 & b_1 \\ a_2 & b_2 \end{vmatrix}^2 + \begin{vmatrix} c_1 & d_1 \\ c_2 & d_2 \end{vmatrix}^2 + \begin{vmatrix} a_1 & d_1 \\ a_2 & d_2 \end{vmatrix}^2 \neq 0,$$

$a_1 d_2 = b_2 c_1$, $a_1(d_1 - c_2) = c_1(b_1 - a_2)$, $b_2(d_1 - c_2) = d_2(b_1 - a_2)$,
is closed with respect to Σ -integration [Bers and Gelbart, Trans. Amer. Math. Soc. 56 (1944), 67-93; MR 6, 86].
This means that in order that the function $f_1(z) = u_1 + iv_1$ be a solution of (1) it is necessary and sufficient that

$$\begin{aligned} f_1(z) = \int_{z_0}^z f(z) dz &= \int_{(z_0, y_0)}^{(z, y)} (a_2 u + b_2 v) dx + (c_2 u + d_2 v) dy \\ &+ i \int_{(z_0, y_0)}^{(z, y)} (a_1 u + b_1 v) dx + (c_1 u + d_1 v) dy, \end{aligned}$$

where $f(z) = u + iv$ is a solution of (1).

G. N. Polozhil (RZhMat 1953, no. 47).

Small Box

LUKONISKAYA, M. A.

Lukoniskaya, M. A. On division of power series. Belorussian Gos. Univ. Uč. Zap. Ser. Fiz.-Mat. 15 (1953), 46-48. (Russian)

Math If $\sup |a_n|^{1/n} = M$ for $f(z) = 1 - \sum_{n=1}^{\infty} a_n z^n$, then $f(z)$ has no zeros in the circle $|z| < 1/2M$. This is proved by considering the power series for $1/f(z)$. A. W. Goodman.

Lukomskaya, M. A. Solution of some systems of partial differential equations by means of inclusion in a cycle. Akad. Nauk SSSR. Prikl. Mat. Meh. 17, 745-747 (1953). (Russian)

The theory of Σ -differentiation and Σ -integration for systems of the form

$$c_1 u_x + d_1 v_x = a_1 u + b_1 v,$$

$$c_2 u_x + d_2 v_x = a_2 u + b_2 v,$$

is a special case of the theory of pseudo-analytic functions developed by Bers [Theory of pseudo-analytic functions, Inst. Math.-Mech., New York Univ., 1953; these Rev. 15, 211]. In this note certain equations of the above form which arise in problems in mechanics are shown to be included in a 1-cycle (period 1 in the terminology of Bers). In this manner solutions can be obtained in terms of generalized powers which in turn may be found in ini form. In the final paragraph it is shown that the system $p u_x = v_x, -p v_x = v_x, p = p(x, y)$ harmonic, has period 1. M. H. Protter.

LUKOMSKAYA, M. A.

Lukomskaia M. A. On some systems of homogeneous

linear differential equations. Uč. Zap. Belorussk. Gos.

Univ. Ser. Mat. 1954, no. 16, 56-64. (Russian)

1 - F/W

The form of the system and the hypotheses are the same as in the work of the author reviewed above; in addition it is required that $(a_1b_2 - a_2b_1)(c_1d_2 - c_2d_1) \neq 0$. The Σ -derivative of the function $f(z) = u(x, y) + iv(x, y)$ is defined by the formula

$$f_{\Sigma}'(z) = \left[\left(b_1 \frac{\partial u}{\partial x} - b_2 \frac{\partial u}{\partial y} \right) + i \left(a_1 \frac{\partial u}{\partial x} - a_2 \frac{\partial u}{\partial y} \right) \right] (a_1b_2 - a_2b_1)^{-1/2}.$$

$f_{\Sigma}^{(n)}(z)$ is the result of n -fold iterated Σ -differentiation. Some theorems are proved which were formulated earlier by the author [Dokl. Akad. Nauk SSSR (N.S.) 73 (1950), 885-888; MR 12, 604]. Among them are an analogue of Morera's theorem, Weierstrass's theorem on the uniform limit of analytic functions, an estimate of a Σ -monogenic function (proved under the hypothesis of analyticity in z and y of the coefficients of the system and of the studied solution) $|f_{\Sigma}^{(n)}(z_0)| \leq c^n n!$ ($n = 1, 2, \dots$), and also the equation $f(z) = 0$ for a Σ -monogenic function as a consequence of the equations $f_{\Sigma}^{(n)}(z_0) = 0$ ($n = 0, 1, \dots$) (under the same assumptions). Some results are formulated

(over)

hukomskaya, M.A.

without proof. There is also considered the system

$$\sum_{k=1}^n (a_{jk} \frac{\partial u_k}{\partial x} - b_{jk} \frac{\partial u_k}{\partial y}) = 0 \quad (j=1, \dots, n)$$

with sufficiently smooth coefficients satisfying the conditions $\partial a_{jk}/\partial x = \partial b_{jk}/\partial y$ ($j, k=1, \dots, n$), $\det a_{jk} \neq 0$, $\det b_{jk} \neq 0$. The Σ -integral of the solution $(u_1, \dots, u_n)$ is defined as the vector with components

$$U_j = \int_{(a,b)}^{(c,d)} \sum_{k=1}^n (b_{n+1-j,k} u_k dx + a_{n+1-j,k} u_k dy).$$

Conditions of closure of the system relative to Σ -integration take the form

$$\sum_{k=1}^n (a_{jk} b_{n+1-l-k,1} - b_{jk} a_{n+1-l-k,1}) = 0 \quad (j, l=1, \dots, n).$$

There is also defined the notion of Σ -derivative; some basic properties of the Σ -integral and Σ -derivative are introduced without proof. There are misprints and not all necessary restrictions are made: e.g., it is not stated that the region of variation of the arguments is simply connected. A. D. Myskis (RZMat 1955, no. 5026).

2/2

Row

LUKOMSKAYA, M.A.

Principle of maximum and minimum values for solution of quasi-linear elliptic equations. Uch.zap.BGU no.32:95-96 ' 57.
(MIRA 11:12)

(Functional analysis)

LUKOMSKAYA, M.A.

Solution by inclusion into the cycle, of a system of equations describing a steady plane flow of ground waters with nonlinear filtration. Inzh.-fiz. zhur. no.3:148-151 Mr '60. (MIRA 13:10)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina, Moskva.
(Water, Underground)

S/170/61/004/009/013/013
B104/B125

AUTHOR: Lukomskaya, M. A.

TITLE: Solution of the system of equations for the plastic equilibrium in plane stressed state by inclusion into a cycle

PERIODICAL: Inzhenerno-fizicheskii zhurnal, v. 4, no. 9, 1961, 108-110

TEXT: The plastic equilibrium in plane stressed state is described by the system $\partial \sigma_x / \partial x + \partial \tau_{xy} / \partial y = 0$; $\partial \tau_{xy} / \partial x + \partial \sigma_y / \partial y = 0$ (equilibrium equations) and by the equation $\frac{1}{3} \{ \sigma_x^2 - \sigma_x \sigma_y + \sigma_y^2 \} = k^2$ (condition of plasticity). Using the substitution $\sigma_x = k (\sqrt{3} \cos \psi + \sin \psi \cos 2\varphi)$; $\sigma_y = k (\sqrt{3} \cos \psi - \sin \psi \cos 2\varphi)$; $\tau_{xy} = k \sin \psi \sin 2\varphi$, the equilibrium equations can be given the form

✓

Card 1/5

Solution of the system of equations...

S/170/61/004/009/013/013
B104/B125

$$(\sqrt{3} \sin \omega \cos 2\varphi - \cos \omega) \frac{\partial \omega}{\partial x} + \sqrt{3} \sin \omega \sin 2\varphi \frac{\partial \omega}{\partial y} -$$

$$- 2 \sin \omega \frac{\partial \varphi}{\partial y} = 0,$$

$$\sqrt{3} \sin \omega \sin 2\varphi \frac{\partial \omega}{\partial x} - (\sqrt{3} \sin \omega \cos 2\varphi + \cos \omega) \frac{\partial \omega}{\partial y} + \quad (2)$$

$$+ 2 \sin \omega \frac{\partial \varphi}{\partial x} = 0,$$

✓

A particular solution of this system was presented by V. V. Sokolovskiy (Teoriya plastichnosti. Gostekhizdat, M., 1950). The present author describes a method for obtaining an infinite set of particular solutions to (2). Now, x and y are considered to be functions of the independent variables ω and φ . Thus, the quasi-linear system (2) becomes linear. It is equivalent to the system

Card 2/5

Solution of the system of equations...

S/170/61/004/009/013/013

B104/B125

Последняя система равносильна следующей:

$$\begin{aligned} -\cos \omega \sin 2 \varphi \frac{\partial x}{\partial \varphi} + (-\sqrt{3} \sin \omega + \cos \omega \cos 2 \varphi) \frac{\partial y}{\partial \varphi} &= \\ &= -2 \sin \omega \cos 2 \varphi \frac{\partial x}{\partial \omega} - 2 \sin \omega \sin 2 \varphi \frac{\partial y}{\partial \omega}, \\ (\sqrt{3} \sin \omega + \cos \omega \cos 2 \varphi) \frac{\partial x}{\partial \varphi} + \cos \omega \sin 2 \varphi \frac{\partial y}{\partial \varphi} &= \\ &= -2 \sin \omega \sin 2 \varphi \frac{\partial x}{\partial \omega} + 2 \sin \omega \cos 2 \varphi \frac{\partial y}{\partial \omega}. \end{aligned} \quad (4)$$

Уравнения системы (4) получаются как линейные комбинации уравне-
for which the solution

Card 3/5

Solution of the system of equations...

S/170/61/004/009/013/013
B104/B125

$$\begin{aligned} & \int_{(\varphi, \omega)} \left(-\frac{2 \sin 2 \varphi}{\sin \omega} u - \frac{2 \cos 2 \varphi}{\sin \omega} v \right) d \varphi + \\ & + \left[\left(\frac{\sqrt{3}}{\sin \omega} - \frac{\cos \omega \cos 2 \varphi}{\sin^2 \omega} \right) u + \frac{\cos \omega \sin 2 \varphi}{\sin^2 \omega} v \right] d \omega + \quad (A) \\ & + i \int_{(\varphi, \omega)} \left[\frac{2 \cos 2 \varphi}{\sin \omega} u - \frac{2 \sin 2 \varphi}{\sin \omega} v \right] d \varphi + \\ & + \left[-\frac{\cos \omega \sin 2 \varphi}{\sin^2 \omega} u - \left(\frac{\sqrt{3}}{\sin \omega} + \frac{\cos \omega \cos 2 \varphi}{\sin^2 \omega} \right) v \right] d \omega. \end{aligned}$$

is derived by means of a Σ -integral (Petrovskiy I. G., UMN, 1, 3-4, 61-64, 1946; Lukomskaya M. A., IFZh, no. 3, 1960). It may be seen that system (4)

Card 4/5

Solution of the system of equations...

S/170/61/004/009/013/013
B104/B125

is included in a cycle of second order, and that an infinite sequence of Σ -power functions is obtained. Any function of this sequence may be calculated in a closed form. There are 3 Soviet references.

ASSOCIATION: Belorusskiy gosudarstvennyy universitet im. V. I. Lenina,
g. Minsk (Belorussian State University imeni V. I. Lenin,
Minsk)

SUBMITTED: June 28, 1961

Card 5/5

LUKOMSKAYA, M.A.; SHTEYNBERG, N.S.

Relation between $\sum$ -integration and integration by conjugate variables. Dokl. AN BSSR 7 no.10:653-654 0 '63.

(MIRA 16:11)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina i Sverdlovskiy pedagogicheskiy institut. Predstavleno akademikom AN BSSR V.I. Krylovym.

BORODIKHIN, A.P.; KURBATOV, Yu.L.; LUKOMSKAYA, N.O.

Studying gas dynamics in the heating system of the large-capacity
type PVR coke ovens. Koks i khim. no.10:31-35 '63.
(MIRA 16:11)

1. Kuznetskiy metallurgicheskiy kombinat.

KURBATOV, Yu.L.; GORELKINA, A.Ye.; LUKOMSKAYA, N.O.

Studying the conditions of steel pouring by means of a model.
Izv. vys. ucheb. zav.; chern. met. 7 no.3:40-43 '84.
(MIRA 17:9)

1. Kuznetskiy metallurgicheskiy kombinat.

USSR/Pharmacology and Toxicology. Cholinergics

V-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 47190

Author : Mikhel'son M.Ya., Savateyev N.V., Lukonskaya N.Ya., Rozhkova Ye.K., Grigor'yeva L.M.

Inst : AS USSR

Title : The Effect of Anticholinesterase (Phospho-organic and other), the Parasympathomimetic and Parasympatholytic Substances Upon the Higher Nervous Activity of Man and Animals

Orig Pub : V. sb.: Khimiya i primeneniye fosfororgan. soyedineniy. M., AN SSSR, 1957, 324-334. Diskus. 334-335

Abstract : The subcutaneous introduction of 3-4 mg/kg. of Pentaphene (I) to healthy persons produces weakly marked disturbances of the higher nervous activity during 2-3 hours, while the administration of 5 and 10 mg/kg. disturbs the consciousness completely for a period of 2-5 hours. In the simultaneous administration of I (3.0-3.5 mg/kg.) and of Proserin [Neostigmine methylsulfate, Prostigmine methyl-

Card : 1/2

SKOROKHOD, O.R.; YERMOLENKO, N.F.; LUKOMSKAYA, N. *ja*

Combined adsorption from aqueous solutions of two aromatic acids.

Uch.zap.BGU no.42:159-172 ' 58.

(MIRA 12:1)

(Acids, Organic) (Adsorption)

LUKOMEYAYA, N.Ya, Cand Med Sci --(disc) "Effect of cholinolytic
and cholinomimetic substances ^{upon} ~~the~~ the higher nervous activity of
animals." Len, 1959. 23 pp (First ^{then} ~~then~~ Med Inst in I.P. Pavlov),
200 copies. (ML, 30-52, 122)

-54-

GERSHUNI, G.V.; KLAAS, Yu.A.; LUKOMSKAYA, N.Ya.; LINYUCHEV, M.N.;
SAGAL, A.A.

Method of evaluating human discrimination of sound stimuli with increasing amounts of information and its use in studying the effect of certain pharmacological substances [with summary in English]. Biofizika 4 no.2:158-165 '59. (MIRA 12:4)

1. Institut fiziologii imeni I.P. Pavlova AN SSSR, Leningrad 1-y
Leningradskiy meditsinskiy institut imeni I.P. Pavlova.

(PHARMACOLOGY,

discrimination of sound stimuli with increased
amount of information in investigation of eff.
of pharmacol. prep. (Rus))

(PERCEPTION,
same)

(SOUNDS, eff.
same)

LINYUCHEV, M.N.; LUKOMSKAYA, N.Ya.; MIKHEL'SON, M.Ya.

Restoration through the use of phenamine of conditioned reflexes
disrupted by cholinolytics. Farm.i toks. 24 no.6:659-664 N-D '61.
(MIRA 15:11)

1. Laboratoriya farmakologii (zav. - prof. M.Ya.Mikhel'son)
Instituta evolyutsionnoy fiziologii imeni I.M.Sechenova AN SSSR.
(CONDITIONED RESPONSE) (PARASYMPATHOLYTICS) (PHENETHYLAMINE)

LUKOMSKI, A.

"Improving the quality of glass containers in the food industry," *Przemysł Rolny i Spożywczy*, Warszawa, Vol 8, No 5, May 1954, p. 166.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

LUKOMSKI, A.

"For further improvement of the quality of beer," *Przemysl Rolny I Spozywczy*,
Warszawa, Vol 8, No 8, Aug. 1954, p. 265.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

POLAND/Chemical Technology - Fermentation Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83235

Author : Lukomski, A.

Inst : -

Title : Certain Methods of Increasing the Quality of Water in the
Brewing Industry.

Orig Pub : Techn. przem. spozywcz, 1956, 5, No 10, 346-347.

Abstract : No abstract.

Card 1/1

- 36 -

POLAND/Chemical Technology - Fermentation Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83232

Author : Lukowski, A.

Inst : -

Title : The Technical Progress in the World Malt Industry.

Orig Pub : Przem. fermentacyjny, 1957, 2, No 2, 44-48.

Abstract : Problems of mechanization and automation in the production of malt are discusses.

Card 1/1

- 35 -

HERMAN, Alojzy, inż.; KOLIS, Jan, inż.; PUTYNSKI, Zbigniew, inż.;
TULISZKA, Zenon, inż.; LUKOMSKI, Antoni, technik; PTASZYNSKI,
Stefan, technik; ZAPALA, Stanislaw, technik; TOBIASZ, Szczepan,
technik

Rotation furnace for burning vinasse. Gosp paliw 11 Special
issue no.(95):8 Ja '63.

1. Sieradzka Gorzelnia Przemyslowa, Sieradz.

HERMAN, Alojzy, inz.; KOLIS, Jan, inz.; PUTYNSKI, Zbigniew, inz.;
LUKOWSKI, Antoni, technik; JANKOWSKI, Zdzislaw, technik;
MALINOWSKI, Tadeusz, technik; GIERLICZ, Kazimierz, technik

Vapor heat recovery from evaporators for heating distilling
apparatus in alcohol distilling plants. Gosp paliw 11
Special issue no.(95):9 Ja '63.

1. Sieradzka Gorzelnia Przemyslowa, Sieradz.

LUKOMSKI, Andrzej, mgr. inż., MAZURKIEWICZ, Andrzej, mgr. inż.

Graphic method of calculating webs in cylindrical pressure vessels. Przegl mech 24 no.2:33-36 25 Ja '65.

1. Head, Section of Measurements of the Steam Boiler Factory in Raciborz (for Lukowski). 2. Deputy Head, Section of Research of the Steam Boiler Factory in Raciborz (for Mazurkiewicz).

LUKOMSKI, Edmund; WIERZBICKI, Jozef

Significance of cholecystography in diagnosis of diseases of the gallbladder. Polski tygod. lek. 9 no.22:694-698 31 May 54.

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu, kierownik prof. dr St.Nowicki i z oddziału radiologicznego P.S.K. w Poznaniu, kierownik dr E.Lukomski
(CHOLECYSTOGRAPHY,
diag. value)

WIERZBICKI, J.; LUKOMSKI, E.

Early roentgen examination of acute stomach and duodenal hemorrhages. Polski tygod. lek. 10 no. 25: 833-835 20 June '55.

1. Z I Kliniki Chirurgicznej A.M. w Poznaniu; kierownik: prof. dr St. Nowicki i z Pracowni Radiologii Szpitala Klinicznego im. Pawłowa kierownik: dr. E. Lukomski) Poznań, I Klinika Chirurgiczna A.M.

(STOMACH, hemorrhage
diag., x-ray, early)

(DUODENUM, hemorrhage
diag., x-ray, early)

(HEMORRHAGE,
duodenum & stomach, diag. x-ray)

CELLARY, Jerzy; HORST, Halina; LUKOMSKI, Edmund

Paget's diseases. Chir. narz. ruchu 21 no.1:21-29 1956.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Poznaniu, Kierownik:
prof. dr. S. Kwasniewski, Z Oddziału Radiologicznego P. S. K.
Nr 1 w Poznaniu, Kierownik: dr. E. Lukomski, Z Okręgowej
Przychodni Lekarskiej P. K. P. w Poznaniu, Kierownik: dr. M.
Debicki, Poznan, ul. Długa nr 1.

(OSTEITIS DEFORMANS, case reports.

(Pol))

LUKOMSKI, EDMUND

CHODERA, Leon; LUKOMSKI, Edmund

Pleural rings in the radiogram. Polski tygod. lek. 12 no.15:
546-549 8 Apr 57.

1. (Z I Kliniki Chorob Wewnętrznych Akademii Medycznej w
Poznaniu; kierownik: prof. dr. Stefan Kwasniewski i z Oddziału
Radiologicznego Państwowego Szpitala Klinicznego nr I w
Poznaniu; kierownik: dr. Edmund Lukomski). Adres: Poznań, ul.
Długa 1/2. I Klin. Chor. Wewn. A.M.

(PLEURA, radiography
pleural rings (Pol))

WIERZBICKI, Jozef; LUKOMSKI, Edmund

Diagnostic value of intravenous cholangiography. Polski przegl.
chir. 33 no.6:535-541 '61.

1. Z I Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr
S. Nowicki i z Zakladu Radiologii PSK nr 1 Kierownik: dr E. Lukomski.
(CHOLANGIOGRAPHY)

WOJNEROWICZ, Czeslaw; KYCLER, Zdislaw; LUKOMSKI, Edmund

Tumors of the parathyroid gland and osseous changes (presentation of 3 cases). Endokry. pol. 13 no.3:309-328 '62.

1. Wojewodzki Ośrodek Onkologiczny w Poznaniu Dyrektor: Dr med.
3. Skowronski Kierownik Oddziału Chirurgicznego: dr med. Cz Wojnerowicz.
(OSTEITIS FIBROSA case reports) (PARATHYROID GLANDS neopl)
(ADENOMA case reports)

WOJNEROWICZ, Czeslaw; LUKOMSKI, Edmund

Radiological picture of congenital arteriovenous fistulae. Pol. przegl. radiol. 26 no.1:35-46 '62.

1. Z Oddzialu Chirurgicznego Wojewodzkiego Ośrodka Onkologicznego w Poznaniu Dyrektor Ośrodka: dr med. S. Skowronski Kierownik Oddzialu Chirurgicznego: dr med. C. Wojnerowicz.

(FISTULA ARTERIOVENOUS radiog) (ANGIOGRAPHY)
(BONE AND BONES radiog)

POLAND

LUKOMSKI, Edmund and ZIEMIANSKI, Andrzej; Radiodiagnostic Division (Dial Radiodiagnostyki), Województwo Oncology Center (Wojewódzki Ośrodek Onkologiczny) and the X-ray Laboratory (Pracownia Rentgenowska) of the PSK [Państwowy Szpital Kliniczny, State Clinical Hospital] No 1, in Poznań (Director: Dr. med E. LUKOMSKI)

"Fractura Colli Femuri Post Irradiation. Report of Four Cases."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 14, 1 Apr 63, pp 511-513.

Abstract: [Authors' English summary] Four cases of fracture colli femuri after the x-ray therapy are reported. The patients were given 14 800-- 18 000 r., the single dose being 300 r., 250 kv., 15 ma, 1 Cu filters, with a posterior field of 22/20 cm., and an anterior one of 15/10 cm. Triangular, subcapital rarefaction of the upper part of the femoral collum bone structure is the earliest sequel of irradiation. This rarefaction when progressing causes rupture of the cortex, and fracture occurs. There are 13 references, of which 5 are German and 8 are English.

1/1

MARCINIAK-SKUBISZYNSKA, A.; JUKIMSKI, E.

Diagnostic problems of pulmonary infarction. Kardiol. Pol. 7
no.4:269-274 '64

1. Z I Kliniki Chorob Wewnętrznych Akademii Medycznej w
Poznaniu (Nieroznika: doc. dr. E. Jasinski).

LUKOMSKI, Edmund

A case of generalized osteoplastic bone metastases in prostatic cancer. Pol. tyg. lek. 19 no.45:1739-1740 N 9'64

1. Z Pracowni Radiologicznej PKS nr.1 w Poznaniu (Kierownika dr. med. Edmund Lukomski).

LUKOMSKI, H.

7
Removal of arsenic and antimony from zinc sulfate solutions during electrolysis. Zakłady Cynkowe "Szopienice". Przeds. Państw. (by Mieczysław Kapczyński, Antoni Król, Danuta Krupkova, Henryk Lukomski, Jan. Nosel, Jerzy Adamczak, and Zygmunt Bielawski). Pol. 41, 257, Sept. 10, 1958. Elimination of As and Sb in the ZnSO₄ soln. is simplified by filling the filter press with powd. charcoal 75. Zn powder 10, ZnSO₄ 2, and H₂O 13%. This method increases the degree of elimination of As and Sb by 0.4-0.5 and 0.5-0.7 mg./l., resp. E. Hulanicka

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29924
P/026/61/009/003/001/001
D218/D303

3.5900

AUTHOR: Zukomski, Hieronim (Warsaw)

TITLE: Preliminary studies of the electrification of the atmosphere. Part II

PERIODICAL: Acta geophysica polonica, 1961, v. 9, no. 3, 242-251

TEXT: This is a continuation of work reported in Acta geophysica polonica 1960, v. VIII, no. 2. The apparatus employed was described in the latter paper. Preliminary results obtained with this apparatus are now described. The author measured the corona discharge current from various configurations of thin wires, e.g. sets of horizontal wires, single wires with one end fixed and the other carried by balloon, and so on. The experiments were carried out in dense fog and under normal atmospheric conditions. Voltages of the order of + 50 kV were applied to the wires (relative to ground) and the resulting currents were found to be of the order of 10 - 100 μ A. The only conclusion which is reported is that this is not a good method for producing large space charges in the troposphere. X

Card 1/2

Preliminary studies of ...

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D218/D303

The work was carried out at the Experimental Station Józefów (near Otwock) of the Institute of Geophysics. Acknowledgments are expressed to Professor T. Olczak, A. Stasicki and the Staff of the Factories for the Production of High Tension Apparatus (ZWAWN), Warsaw, for their assistance in this work. There are 4 figures and 7 tables.

SUBMITTED: February 11, 1960

X

Card 2/2

LUKOMSKI, Hieronim, mgr inż.

Some remarks on precipitation control on the earth.
Gosp wodna 24, no. 8; 282-284 S '64.

LUKOMSKI, Hieronim (Warszawa)

A contribution to our knowledge of the electric state of
clouds in stormless periods. Acta geophys pol 10 no.2:183-190
'62.

LUKOMSKI, Hieronim

A contribution to our knowledge of the electric state of
clouds in stormless periods. Pt.2. Acta geophys Pol 12
no.1:57-67 '64

1. State Institute of Hydrology and Meteorology, Warsaw.

LUKOMSKI, Hieronim (Warsaw)

Water and the electric field in the atmosphere. Acta geophys
Pol 11 no.3:143-146 '63.

LUKOMSKI, Leslaw

Pregnancy after radical therapy of thyroid cancer. Endokr. Pol.
16 no.5:505-509 '65.

1. I Klinika Poloznictwa i Chorob Kobietych AM w Krakowie
(Kierownik: prof. dr. S. Schwarz) i Oddzial Ginekologiczno-
Polozniczy Szpitala Powiatowego w Sanoku (Dyrektor: dr.
J. Zigmund).

L 61567-65 EWP(a)/EWP(1)/EPF(n)-2/EWP(b)/EWA(h) Pg-4/Pu-4 WH
 ACCESSION NR: AP5012184 PO/0015/65/000/004/0094/0097 29
 26
 B
 AUTHOR: Grebski, J. F.; Lukonski, M.; Czapkiewicz, K.
 TITLE: Rapid method of determining B_2O_3 in glass with B_2O_3 content of 18% by means of weak slow neutron sources. 1. Effect of geometric conditions of the location of the sample, and of the grain-size distribution in the sample
 SOURCE: Szkło i ceramika, no. 4, 1965, 94-97
 TOPIC TAGS: glass, boric oxide, boric oxide determination, neutron method, slow neutron method, rapid determination method, grain size effect, boric oxide content, glass manufacture
 ABSTRACT: This study was made to investigate the effects of the geometric conditions of the location of the glass sample, and of the grain-size distribution in the sample on the accuracy of B_2O_3 determination in glass by the neutron method which is intended for laboratories of the glass-manufacturing industry. The B_2O_3 content was determined with an apparatus shown in Fig. 1 of the Enclosure. The grain-size effect was studied on coarse-grain fractions (0.4-0.6 mm), fine-grain fractions (0.06-0.088 mm), mixtures of the fractions, and on glass cast from these

Card 1/3

L 61567-65

ACCESSION NR: AP5012184

3

fractions. The experimental results show that: 1) a complete determination of B_2O_3 content in glass requires only 23 min, and the suggestion is made that the glass sample be placed inside the paraffin block as close as possible to the neutron source to ensure accurate determinations; and 2) the coarse-grain and fine-grain fractions are most porous, the mixtures most densely packed are less porous, and the cast glass has no porosity. It is suggested that glass powder of the selected sample, passed through a sieve with apertures of 0.2 mm, be used for glass wholesalers and other customers, and cast glass samples 17 mm in ϕ and 20 mm in length be used in glass-making plants and in glaze and enamel departments. Orig. art. has: 5 figures, 3 formulas, and 4 tables.

ASSOCIATION: Zakład Ceramiki P.W. (Ceramics Plant P.W.); Instytut Fizyki Doświadczalnej U.W., b. Dział Szkolenia Instytutu Badań Jądrowych, Warsaw (Institute of Experimental Physics U.W., formerly the Training Department of the Institute of Nuclear Research)

SUBMITTED: 00

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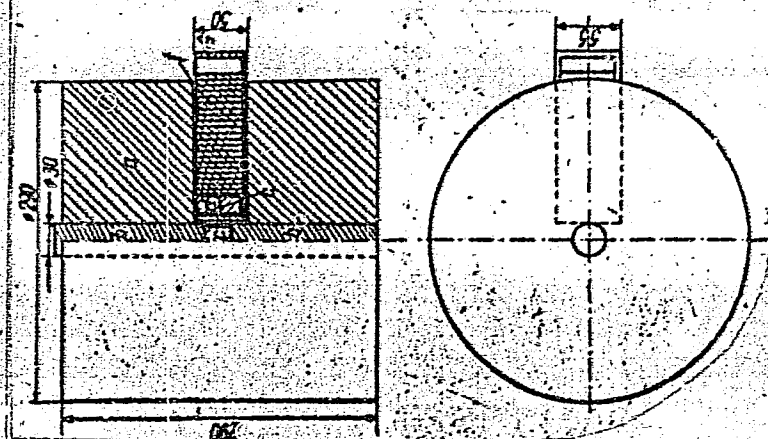
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Fig. 1. Apparatus for determining the B_2O_3 content of glass

a - paraffin block; b - paraffin stoppers;
c - neutron source; d - sample; e - detector;
f - paraffin plates; g - paraffin drawer

ENCLOSURE: 01

LUKOMSKI, Wiktor

Tuberculosis of the palatine tonsils in pulmonary tuberculosis in children. Otolar. polska 8 no.1:45-52 1954.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lodzi.
Dyrektor: prof. dr med. H. Lewenfiusz.

(TUBERCULOSIS, PULMONARY, in infant and child,
with tuberc. of tonsils)

(TUBERCULOSIS,
of tonsils in pulm. tuberc. in child.)

(TONSILS, diseases,
tuberc., in pulm. tuberc. in child.)

LUKOMSKI, Wiktor

Tonsillectomy in tuberculous children. Otolar. polska 8 no.3:
261-268 1954.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lodzi.
Dyrektor: prof. dr med. A.Radziminski.
(TUBERCULOSIS, in infant and child,
tonsillectomy in)
(TONSIL, surgery,
in tuberc. in child.)

LUKOMSKI, Wiktor

Facial chondroma. Otolar. polska 9 no.1:53-57 '55.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lodzi
Kirownik: prof. dr med. Henryk Lewenfisz.

(CHONDROMA,

face, incidence & surg.)

(FACE, neoplasma

chondroma, incidence & surg.)

LUKOMSKI, Wiktor.

Problem of laryngospasm and of croup in clinical conditions and in Polish medical literature. Otolar. polska 9 no.3:263-270 1955.

1. Z Kliniki Otolaryngologicznej A.M. w Lodzi. Kierownik: prof. dr. H.Lewenfisz.

(CROUP, review of Polish literature)

LUKOMSKI, Z.

1954

021.783.02 : 021.9

Lukomski Z., Kozikowski M. New Method for Prolonging the Life of Cutting Tools.

„Nowa metoda przedłużania trwałości narzędzi „wstawiających”. Przegląd Mechaniczny. No. 1, 1954, pp. 3-8, 8 tabs.

POL . A

The authors have developed a new method which makes it possible substantially to prolong the life of cutting tools. The underlying principle of this method is to subject the ready tools to a supplementary heat-treatment process consisting in immersing them in phosphating solution, oil or ordinary water at a temperature of, roughly, 88°C.

Experiments conducted at the Stalin Metal Works in Poznań with a view to improving tools by heat treating them in various baths — and at temperatures ranging from 85° to 88° — gave most satisfactory results. It was found possible in certain instances — as in the case of taps — to achieve a durability increment factor as high as 18. In the course of these experiments, it was found that the kind of heat treatment bath used does not affect the quality of tools, temperature and the length of time allowed for treatment in the bath being the decisive factors. It is, therefore, advisable to rely on the water bath, the least expensive.

LUKOMSKI, Z.

The H. Cegielski Plants in Poznan. p.3.

PRAEGŁAD TECHNICZNY. Naczelna Organizacja Techniczna. Warszawa, Poland, Vol. 80,
no. 39, July, 1959 .

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959.
Uncl.

10F.45K1, Ebigniew, mgr. inż.

Reticular aluminum-tin alloy for bearings. Inżynieria 83
no.14:403-406 29.11.1984

1. Technical manager, B. Cegielski Works, Poznań.

LUKOMSKI, Zbigniew, mgr inz.

Instead of a preface, just a few words on the development of
combustion engine traction on railroads. Biul techn Cegielecki
6 Special issue:3-8 '62.

P/035/60/000/021/005/006
A076/A026

AUTHOR: Lukomski, Zbigniew, Engineer

TITLE: Axial-Flow Fan With 6,000 mm Diameter

PERIODICAL: Przegląd Mechaniczny, 1960, No. 21, pp. 682-683

TEXT: The article describes a 6,000 mm diameter axial-flow fan designed by the Instytut Maszyn Przepływowych PAN (Institute of Flow Machines PAS) in Gdańsk, and built by the Malborska Fabryka Wentylatorów (Malbork Fan Plant) in Malbork. The fan's Q efficiency is 72,000 m³/h; total compression $\Delta p_c = 12$ mm H₂O; static compression $\Delta p_{st} = 10$ mm H₂O; overall efficiency $\eta = 65$; motor power N = 55 kw; motor revolutions $n_s = 735$ rpm; fan revolutions $n_w = 190$ rpm. On June 23, 1960, the fan was handed over to representatives of the "Skawina" power plant. The ceremony was attended by representatives of the Zarząd Budowy Elektrowni PAN (Power Plant Building Council PAS), designing office of industrial installations and by Vice Minister Master Araszkiewicz. The fan efficiency may be regulated from -80 % to +40 % and compression to - 20 %. In order to attain an overall efficiency of 65 %, the flow fan is equipped with a diffuser set at a 13° blunt angle. There are 3 figures.

ASSOCIATION: Fabryka Wentylatorów Malbork (Malbork Fan Plant)

Card 1/1

LUKOMSKI, Zbigniew, mgr inz.

Intrafactory transportation in some enterprises in England.
Przegl techn no.6:9 7 F '62.

LUKOMSKI, Zbigniew, inz.

Stageless control system of delivery and pressure of fans
during their operation. Przegl mech 23 no.24:714-715 25 D '64.

1. Director, Fan Factory, Malbork.